

Appl. No. 10/049,976

Amdt. dated March 11, 2004

Reply to Office Action of December 19, 2003

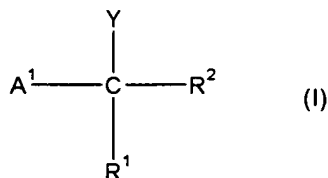
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-9 (Canceled)

10. (New) A method of combating phytopathogenic fungi at a locus infested or liable to be infested therewith, which comprises applying to the locus a compound of the general formula I:



wherein:

A¹ is 2-pyridyl substituted with from one to four moieties independently selected from the group consisting of halogen and haloalkyl, provided that at least one moiety is haloalkyl;

Y is a moiety selected from the group consisting of -L-A² and -L¹-A³

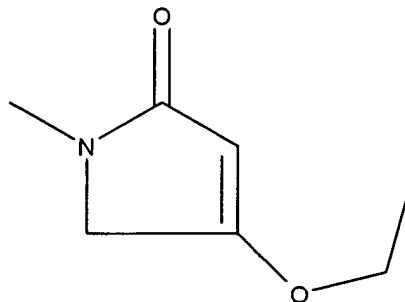
wherein:

A² is selected from the group consisting unsubstituted or substituted phenyl, naphthyl, cyclopropyl, cyclohexyl, biphenyl, thienyl, imidazolyl, toyl, and

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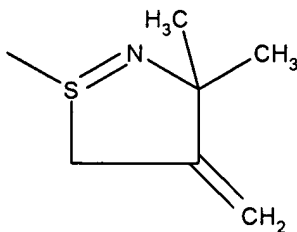
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wherein:

any substituents on A^2 are independently selected from the group consisting of alkyl, halogen, haloalkyl, phenoxy, alkoxy, nitro, acetyl, $-\text{PhSO}_2$, $-\text{NMe}_2$, $-\text{MeSO}_2$, $-\text{MeS}$, and $-\text{PrSO}_2$;

A^3 is selected from the group consisting unsubstituted or substituted phenyl, biphenyl, benzoyl, benzyloxycarbonyl, isopropoxycarbonyl, benzoxazolyl, pyridyl, 2-pyridyl, thiodiazolyl, triazolyl, fluorenyl, tolyl, tetrazolyl, pyrimidinyl, imidazolyl, benzthiazolyl, quinolinyl, and



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wherein:

any substituents on A³ are selected from the group consisting of alkyl, halogen, haloalkyl, hydroxyl, and phenyl;

L is a 3-atom linker selected from the group consisting of -N(R⁵)C(=X)N(R⁶)-, -N(R⁵)C(=X)CH(R³)-, -CH(R³)N(R⁵)CH(R⁴)-, -CH(R³)N(R⁵)C(=X)-, -ON(R⁵)C(=X)-; wherein the left hand side of L is attached to the central carbon atom of formula I;

L¹ is a 4-atom linker selected from the group consisting of -N(R⁹)C(=X)X¹CH(R⁷)-, -N(R⁹)C(=X)CH(R⁷)CH(R⁸)-, -N(R⁹)C(R⁷)=C(R⁸)C(=X)-, -N(R⁹)C(=X)C(R⁷)(R⁸)SO₂-, and -N(R⁹)C(=X)C(R⁷)(R⁸)X¹; wherein the left hand side of L¹ is attached to the central carbon atom of formula I;

R¹, R², R³, R⁴, R⁷, and R⁸ are independently selected from the group consisting of halogen, R^b, and OR^b;

R⁵ and R⁶, which may be the same or different, are R^b;

R^b is selected from the group consisting of hydrogen, alkyl, and acyl;

X is selected from the group consisting of oxygen and sulfur;

X¹ is selected from the group consisting of oxygen and -N(R⁹)-;

R⁹ is R^b;

or a complex or salt thereof.

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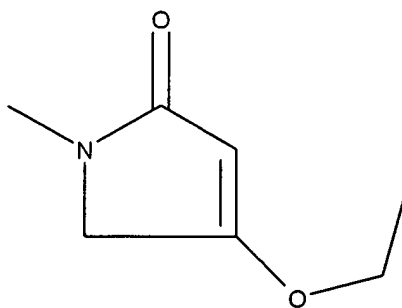
11. (New) The method of claim 10 wherein the compound is applied at an application rate of from 5 to 1000 grams per hectare.

12. (New) A fungicidal composition comprising one or more compounds as defined in claim 10, or a complex or salt thereof, in admixture with an agriculturally acceptable diluent or carrier.

13. (New) A compound of formula I as defined in claim 10 or a complex or salt thereof wherein:

A¹ is 2-pyridyl substituted with from one to four moieties independently selected from the group consisting of halogen and trifluoromethyl, provided that at least one moiety is trifluoromethyl;

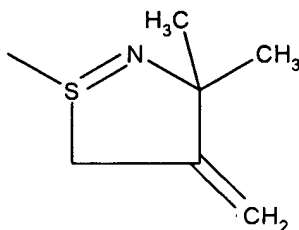
A² is selected from the group consisting of unsubstituted or substituted phenyl, cyclohexyl, cyclopropyl, thienyl, imidazolyl, tolyl, and



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wherein any substituents on A² are independently selected from the group consisting of alkyl, halogen, and haloalkyl;

A³ is selected from the group consisting of unsubstituted or substituted phenyl, pyridyl, 2-pyridyl, thiodiazolyl, triazolyl, fluorenyl, tolyl, tetrazolyl, pyrimidinyl, imidazolyl, benzthiazolyl, quinolinyl, and



wherein any substituents on A³ are selected from the group consisting of alkyl, halogen, haloalkyl, hydroxyl, and phenyl;

R¹, R², R³, and R⁴ are independently selected from the group consisting of hydrogen or alkyl;

R⁵, R⁶, R⁷, and R⁸ are independently selected from the group consisting of hydrogen, alkyl, and acyl; and

R⁹ is selected from the group consisting of hydrogen and alkyl.

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14. (New) A compound of formula I as defined in claim 10 or a complex or salt thereof wherein Y is -L-A²-

wherein:

A) L is -NHC(=X)NH-; and

A² is selected from the group consisting of:

1) phenyl, optionally substituted by halogen, haloalkyl, phenoxy, alkoxy, alkyl, nitro, -MeS, -PhSO₂, dialkylamino, alkylsulfonyl, benzylsulfonyl, S(phenyl substituted by halogen); and

2) cyclopropyl, cyclohexyl, and naphthyl, each of which is optionally substituted by nitro; or

B) L is -NHC(=O)CH(R³)-;

wherein R³ is selected from the group consisting of hydrogen, alkyl, halogen, and acyloxy; and

A² is selected from the group consisting of:

1) phenyl, optionally substituted by halogen, nitro, or alkoxy;

2) thienyl;

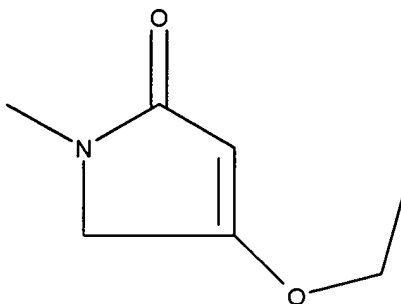
3) imidazolyl; and

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4)



C) L is $-\text{CH}(\text{R}^3)\text{N}(\text{R}^5)\text{CH}_2-$

wherein:

R^3 is N-alkylcarbamoyl or alkoxycarbonyl; and

R^5 is hydrogen or acyl; and

A^2 is selected from the group consisting of

1) phenyl, optionally substituted by alkyl, alkoxy, halogen, nitro, haloalkyl, or phenoxy; and

2) naphthyl; or

D) L is $-\text{CH}(\text{R}^3)\text{NHC}(=\text{O})-$;

wherein R^3 is N-alkylcarbamoyl or alkoxycarbonyl; and

A^2 is selected from the group consisting of:

1) phenyl, optionally substituted by alkoxy, halogen, nitro, haloalkyl, phenoxy, or phenyl; and

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2) cycloalkyl; or

E) L is -O-NHC(=O)-; and

A² is phenyl substituted by alkyl;

or Y is -L¹-A³- wherein:

A) L¹ is -NHC(=O)(CH₂)₂- and A³ is phenyl substituted by alkyl; or

B) L¹ is -NHC(=S)NHCH₂-, and A³ is phenyl; or

C) L¹ is -NHC(=O)CH(alkyl)S- and A³ is phenyl; or

D) L¹ is selected from the group consisting of:

1) -NHC(=O)OCH₂-,

2) -NHC(=O)(CH₂)₂-,

3) -NHC(=O)NHCH₂-,

4) -NHC(=S)NHCH₂-,

5) -N(alkyl)C(=O)CH₂O-, and

6) -NHC(=O)CH₂O-;

R¹ is hydrogen;

R² is selected from the group consisting of hydrogen and alkoxy carbonyl;

A³ is selected from the group consisting of:

1) phenyl, optionally substituted by halogen, alkyl, phenyl, or hydroxyl;

2) fluorenyl;

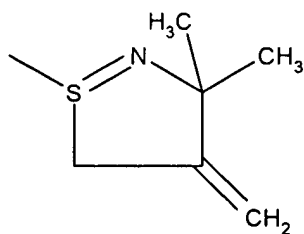
3) pyridyl, optionally substituted by halogen or haloalkyl;

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- 4) thiadiazolyl substituted by alkyl;
- 5) benzthiazolyl, optionally substituted by halogen or by phenyl substituted by halogen;
- 6) quinolinyll substituted by haloalkyl;
- 7) triazolyl substituted by alkyl or phenyl;
- 8) tetrazolyl substituted by alkyl or cycloalkyl;
- 9) pyrimidmyl substituted by alkyl;
- 10) benzoxazolyl;
- 11) imidazolyl substituted by alkyl; and
- 12)



or

E) L¹ is -NHC(=O)CHCR⁸)R⁹)-;

R¹ is hydrogen;

R², R⁸, and R⁹ are independently selected from the group consisting of hydrogen and alkyl; and

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A³ is selected from the group consisting of

1) benzoyl optionally substituted by alkyl, ans

2) benzyloxycarbonyl; or

F) L¹ is -NHC(=O)CH(alkyl)SO

R¹ and R² are each hydrogen; and

A³ is phenyl.